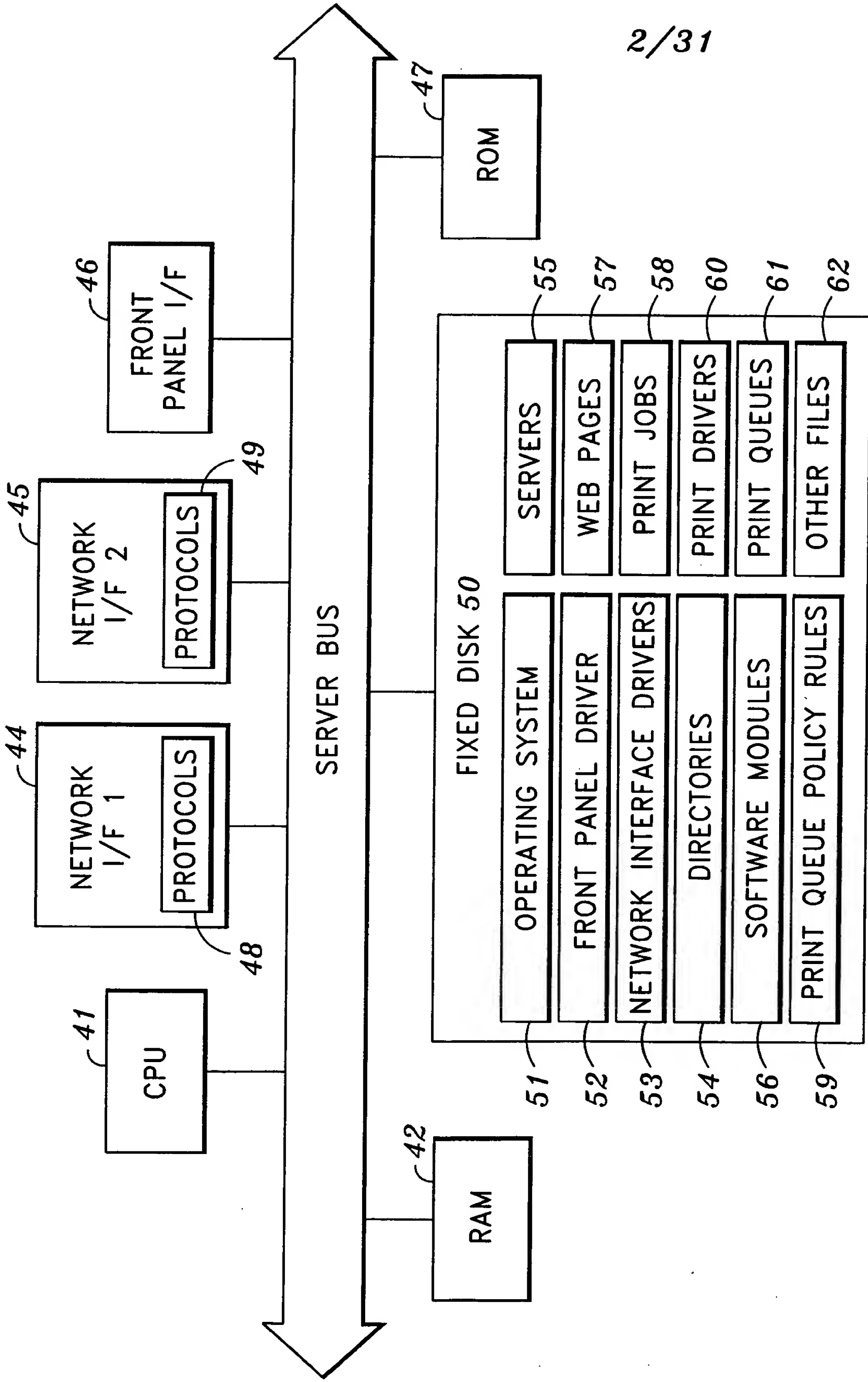


FIG. 1

NETWORK MANAGEMENT DEVICE 20



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FIG. 2

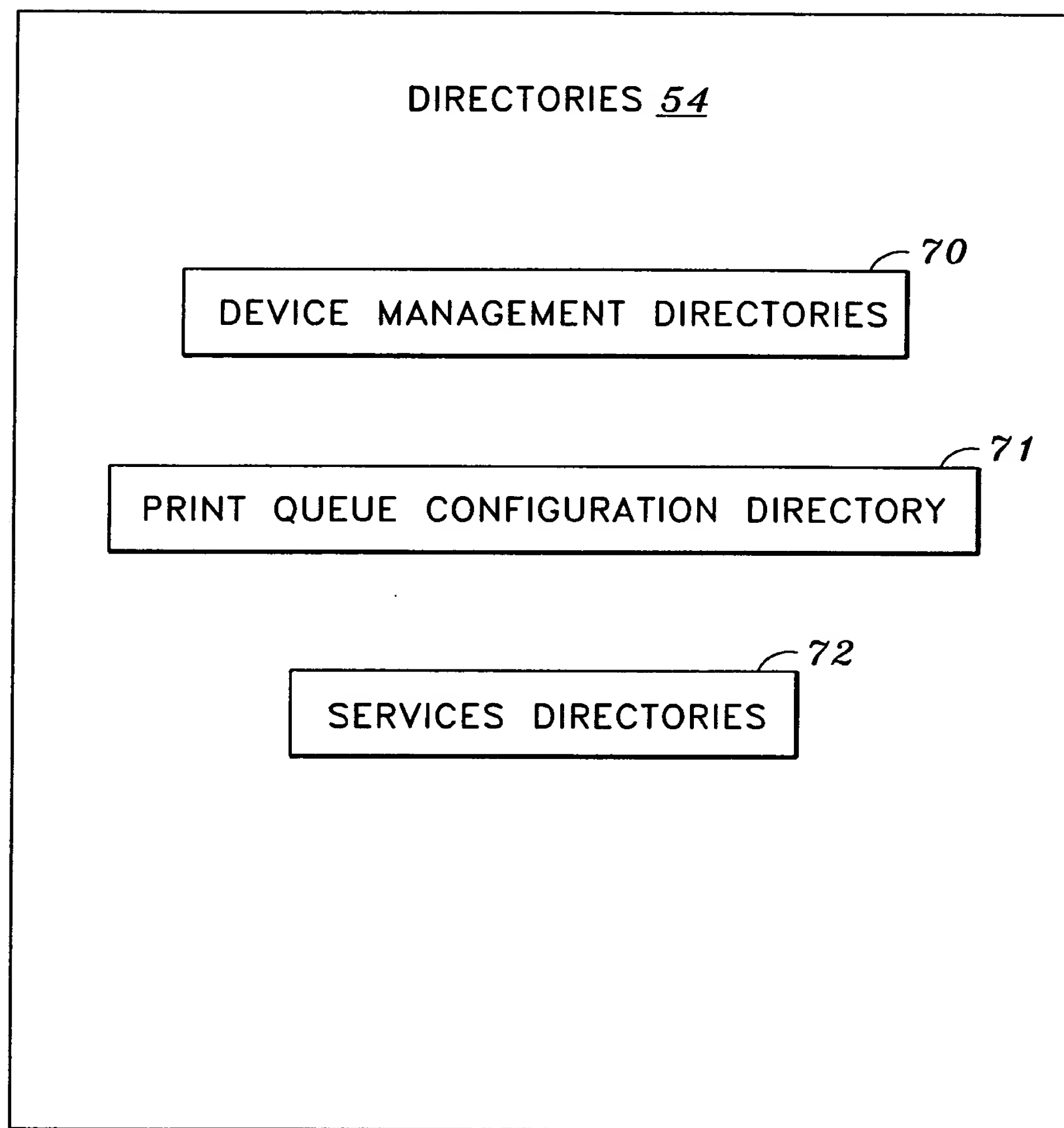


FIG. 3

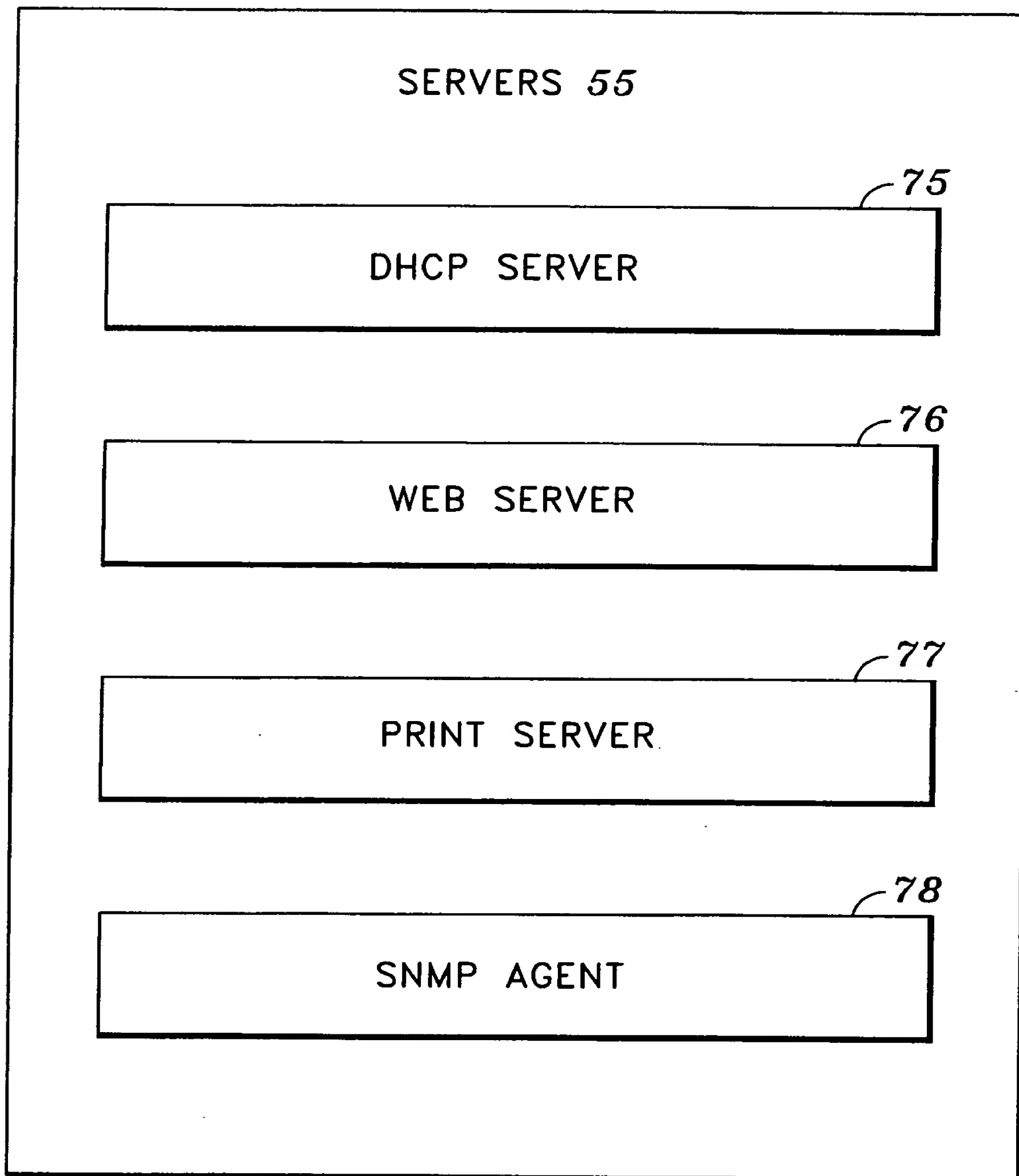


FIG. 4

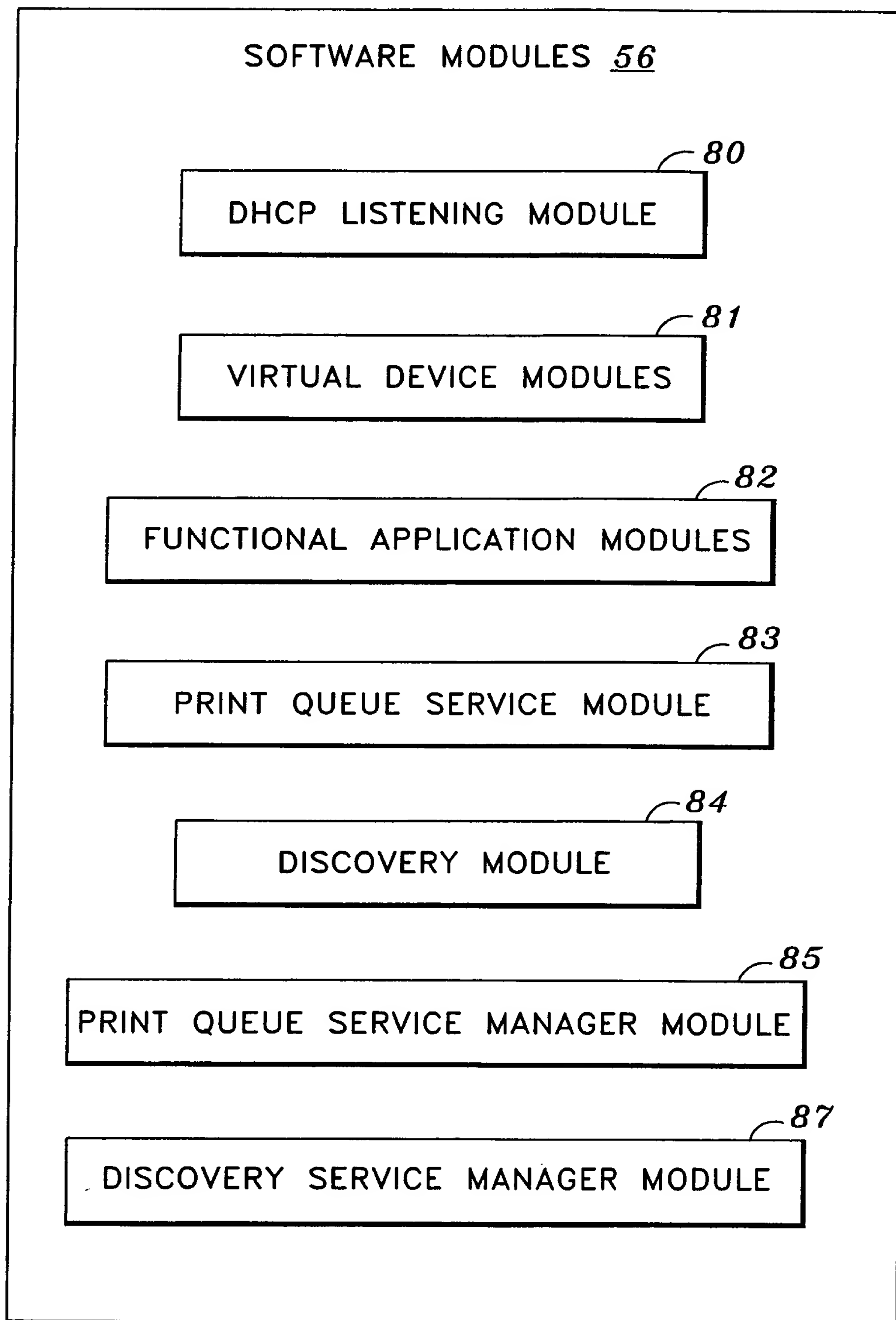


FIG. 5

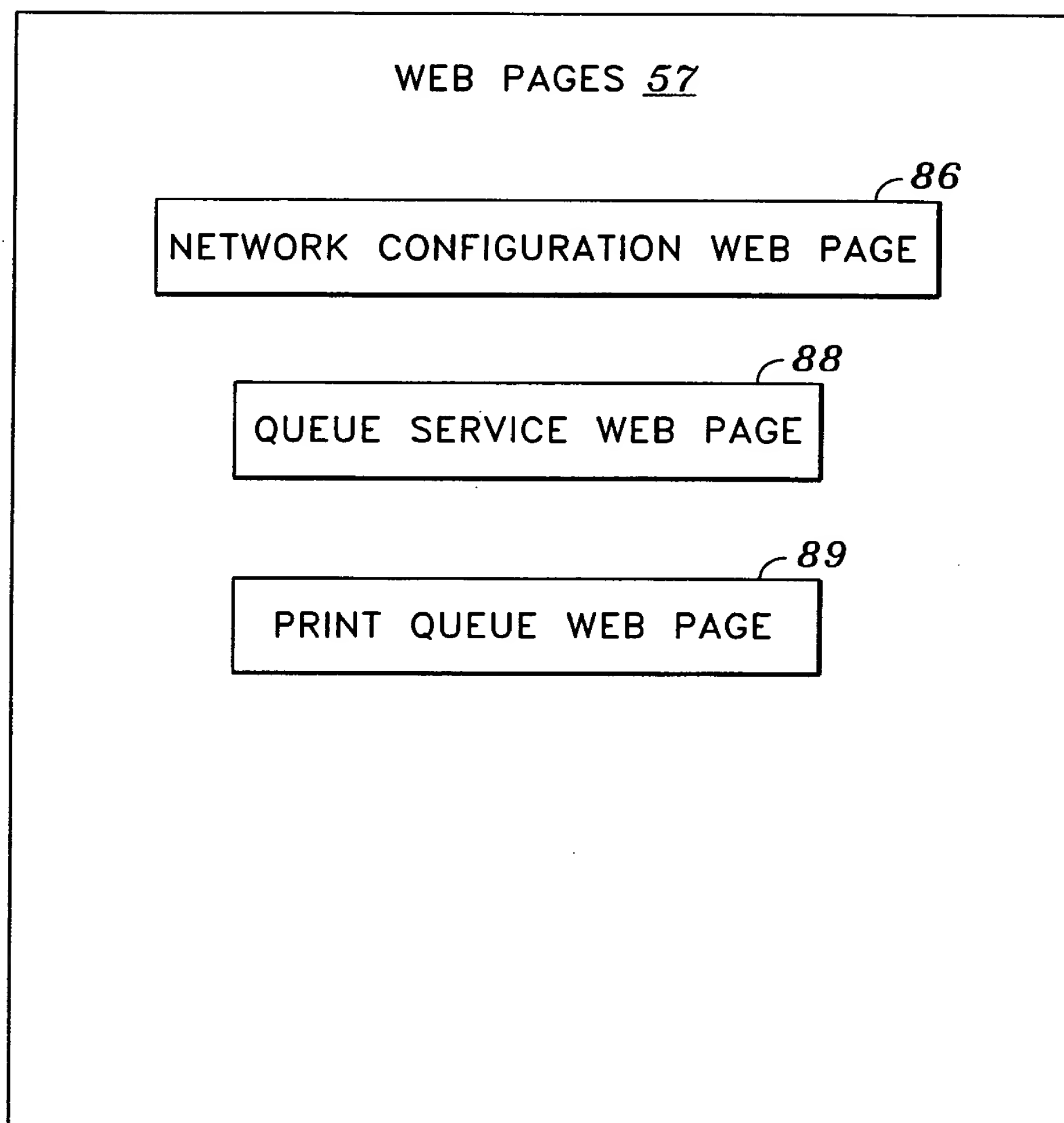


FIG. 6

DEVICE MANAGEMENT DIRECTORY 70

ENTRY 90	MAC ADDRESS 91	PRINT DEVICE TYPE 92	IP ADDRESS 93	NETWORK CONFIGURATION INFORMATION 94
Entry 1	00:00:85:69:0A:B3	Canon Laser	129.65.220.8	Domain Name, etc.
--	--	--	--	--
--	--	--	--	--
--	--	--	--	--
--	--	--	--	--
--	--	--	--	--
--	--	--	--	--
Entry N	--	--	--	--

FIG. 7

PRINT QUEUE CONFIGURATION DIRECTORY 71

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	IP ADDRESS 100	MAC ADDRESS 101	PRINT QUEUE NAME 102	PRINTING CAPABILITIES 103	SERVER 105
Entry 1	129.65.220.8	00:00:85:69:0A:B3	Canon Laser	Color, Letter, A4	Main A
--	--	--	--	--	--
--	--	--	--	--	--
--	--	--	--	--	--
--	--	--	--	--	--
--	--	--	--	--	--
--	--	--	--	--	--
ENTRY N	--	--	--	--	--

FIG. 8

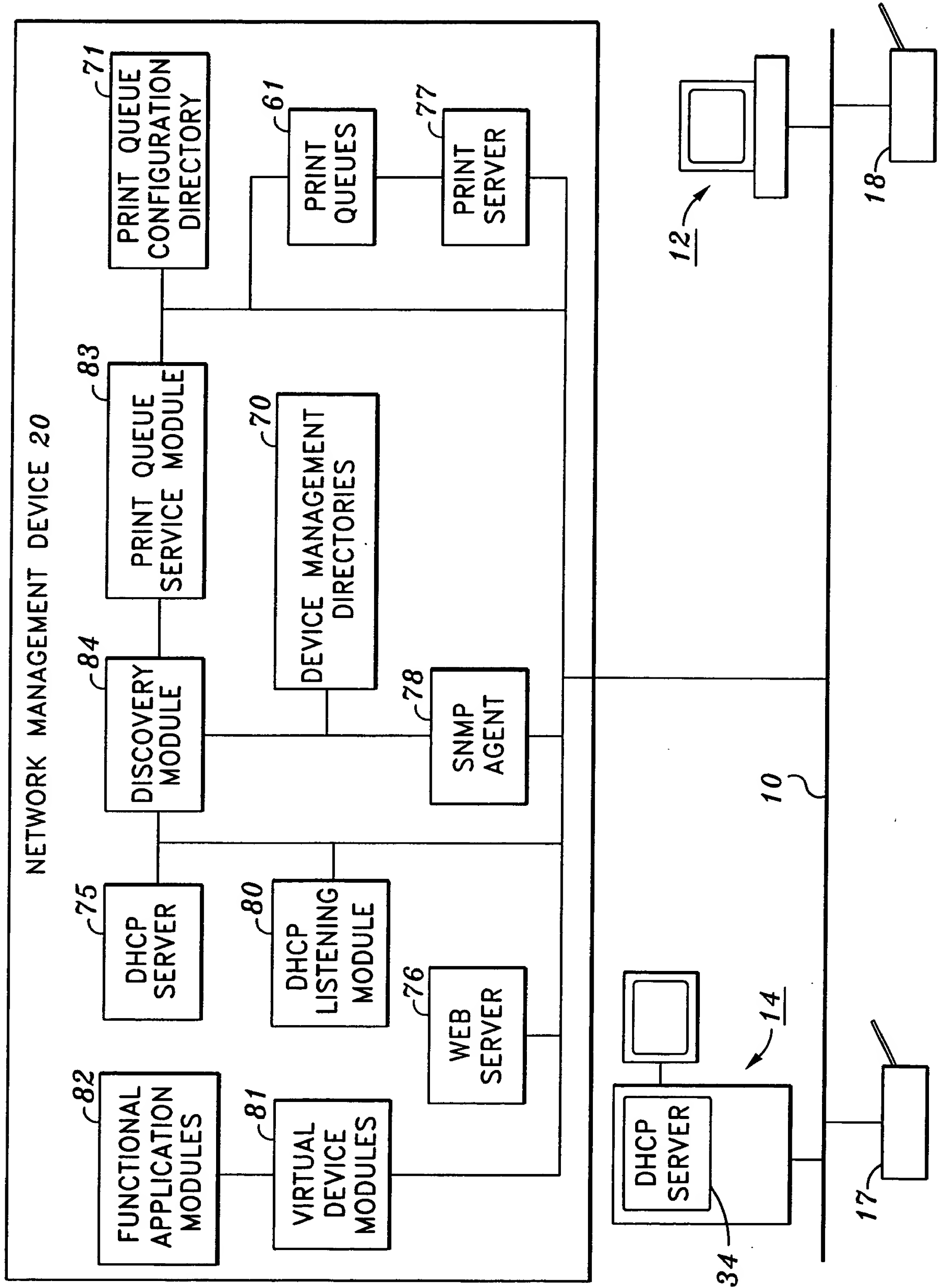


FIG. 9

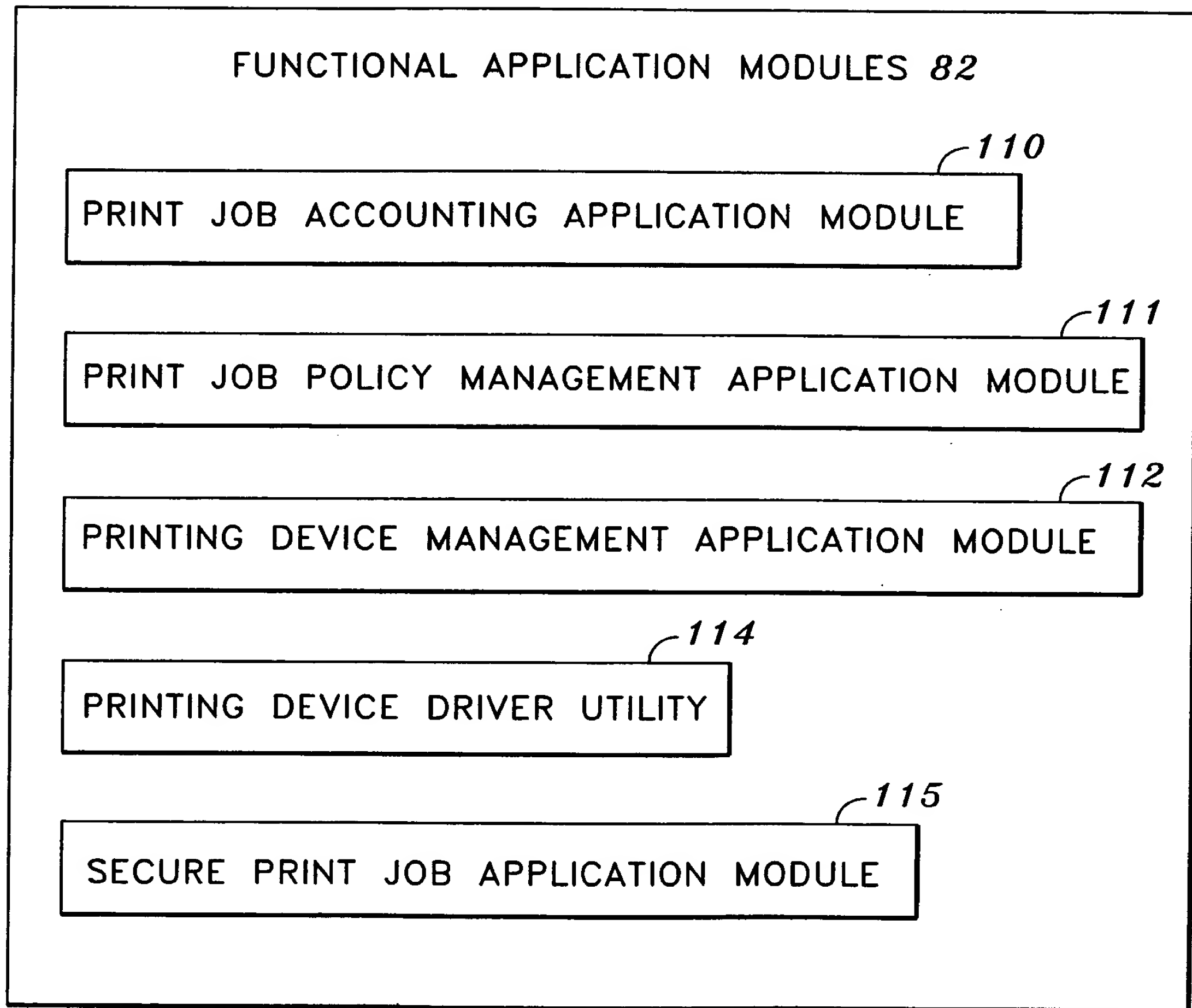


FIG. 10

SERVICES DIRECTORIES 72

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LOCAL SERVICES DIRECTORY		
SUBNET ID ¹²²	SERVICE ¹²⁴	NMD ID ¹²⁵
1	DISCOVERY	NMD 1
1	PRINT QUEUE	NMD 2

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GLOBAL SERVICES DIRECTORY		
SUBNET ID ¹²²	SERVICE ¹²⁴	NMD ID ¹²⁵
1	PRINT QUEUE	NMD 1
1	DISCOV. SERV. MGR.	NMD 3
1	GLOBAL INFO SERV.	NMD 1

FIG. II

GLOBAL SERVICES DIRECTORY <u>121</u>		
¹²² SUBNET ID	¹²⁴ SERVICE	¹²⁵ NMD ID
1	MASTER	NMD 1
1	DISC. SERV. MGR.	NMD 3
1	GLOBAL INFO SERV.	NMD 1
1	PRINT QU. SERV. MGR.	NMD 3
.		
.		
.		
.		

FIG. 12

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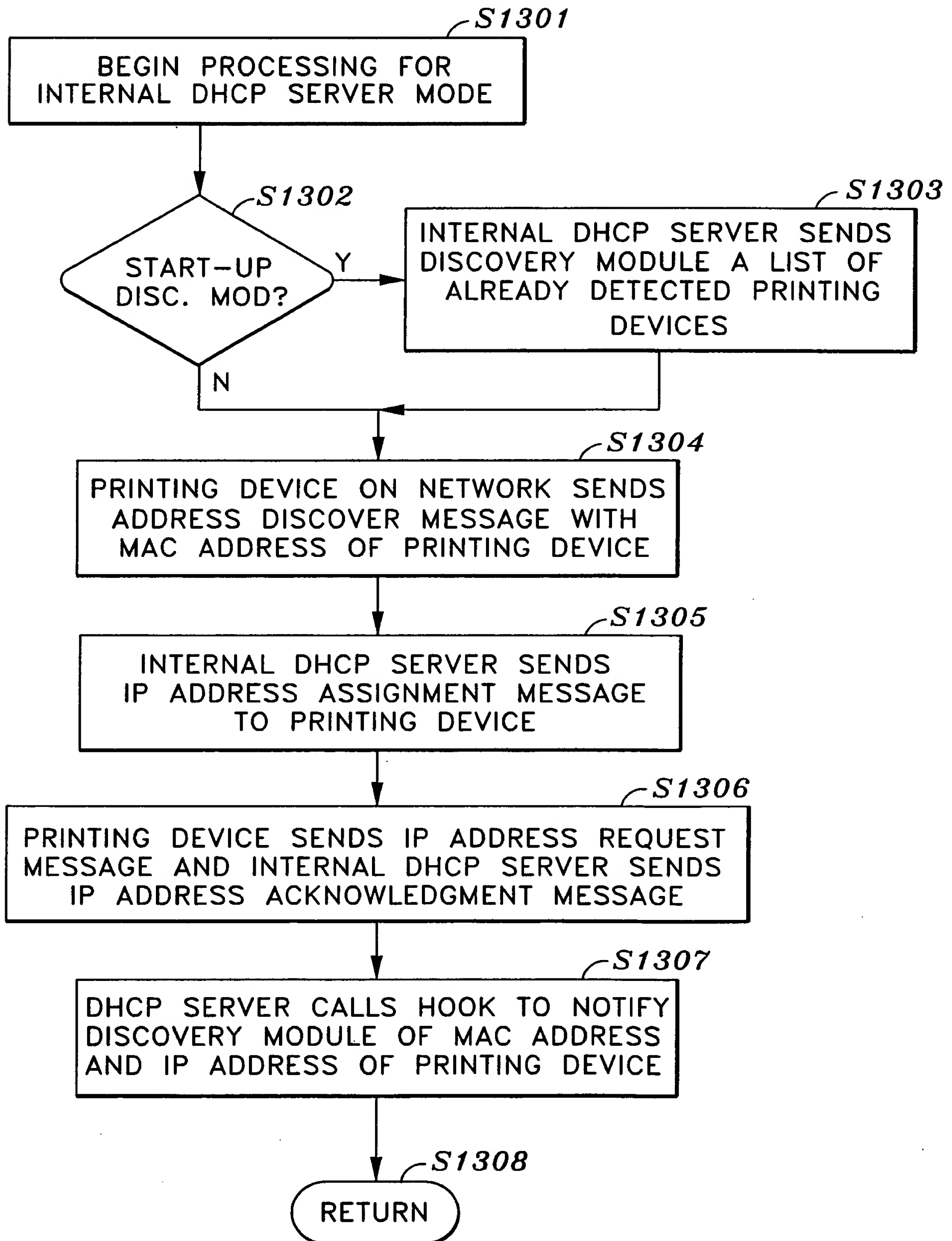


FIG.13A

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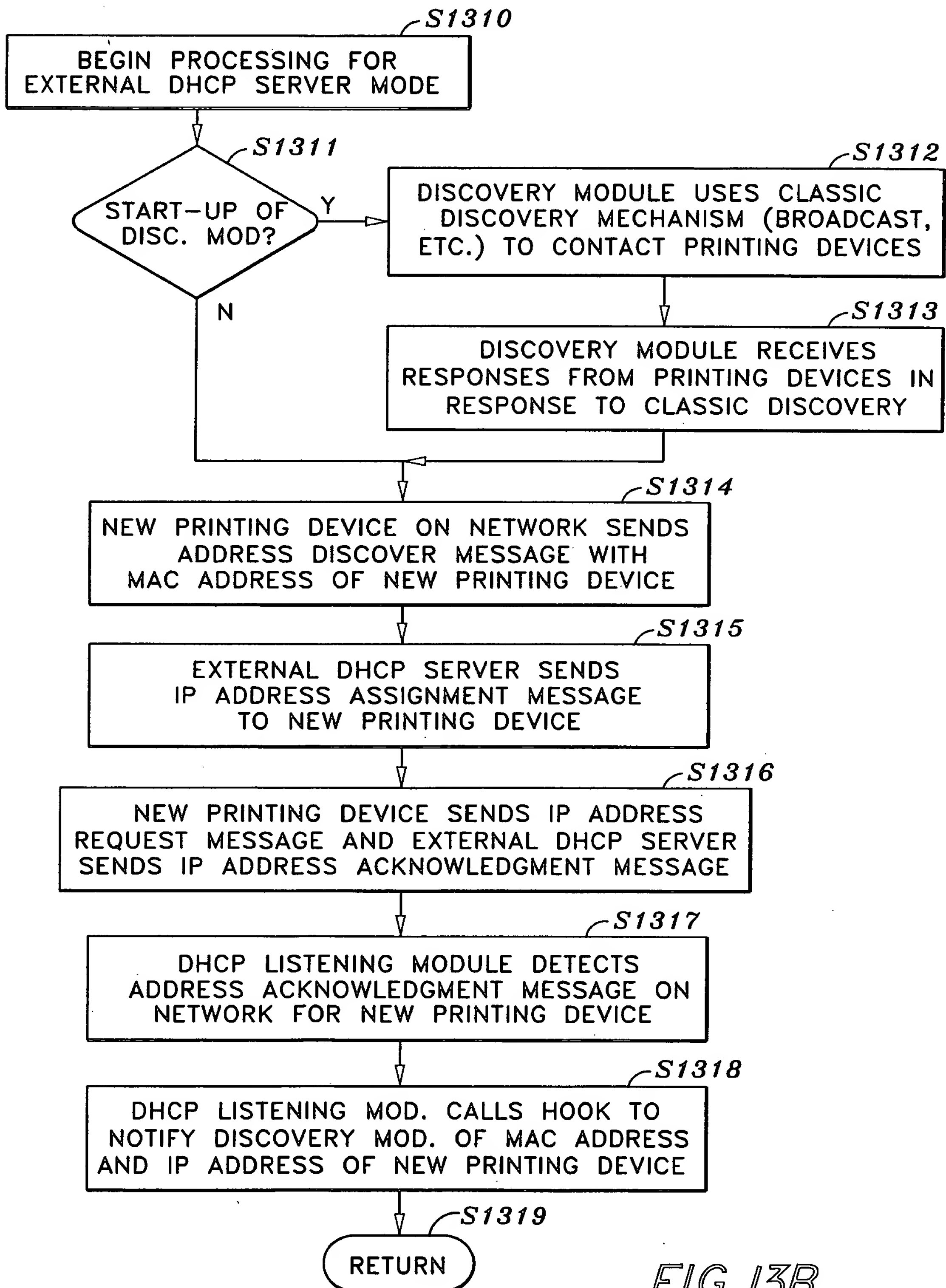
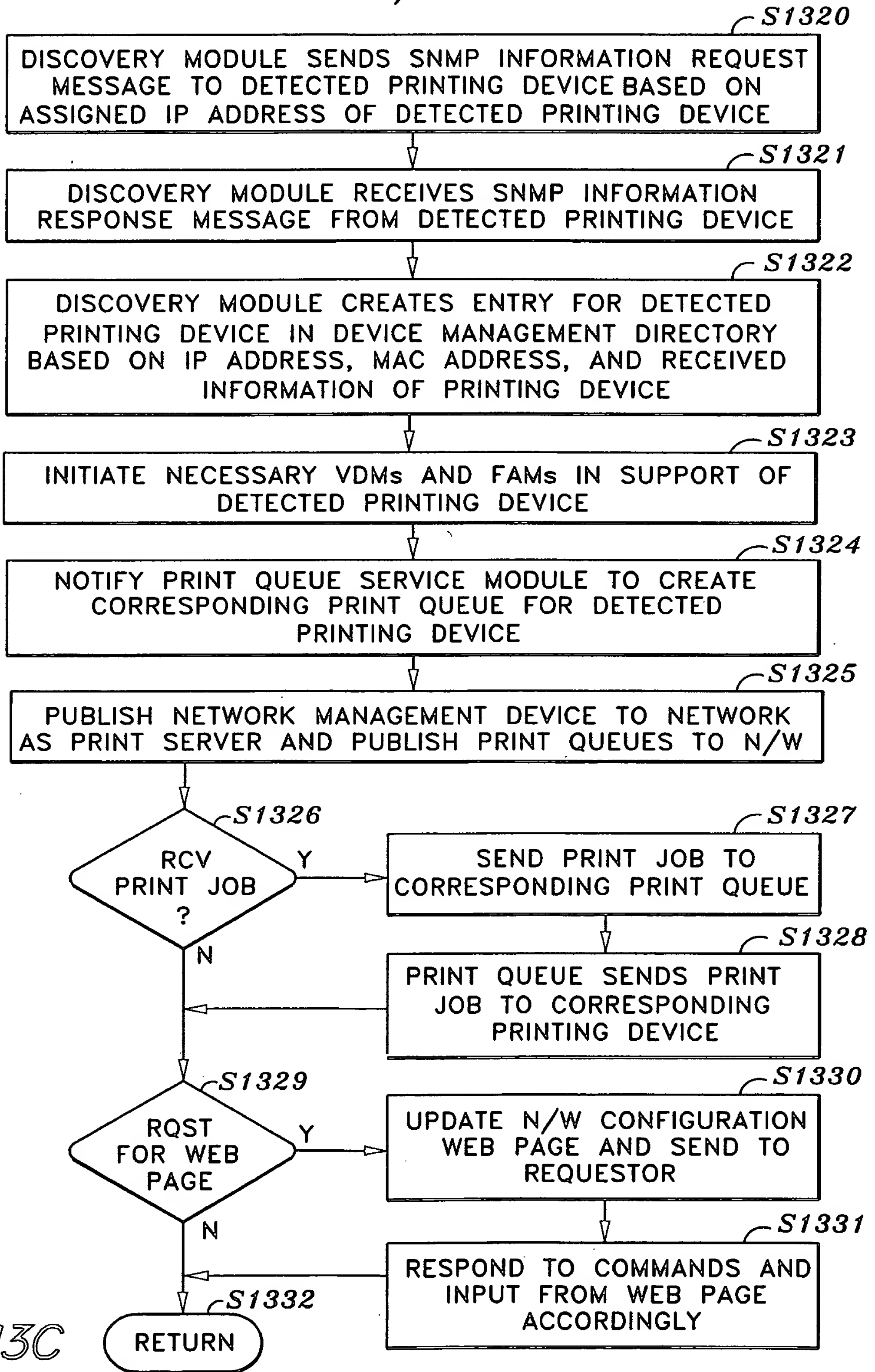


FIG. 13B



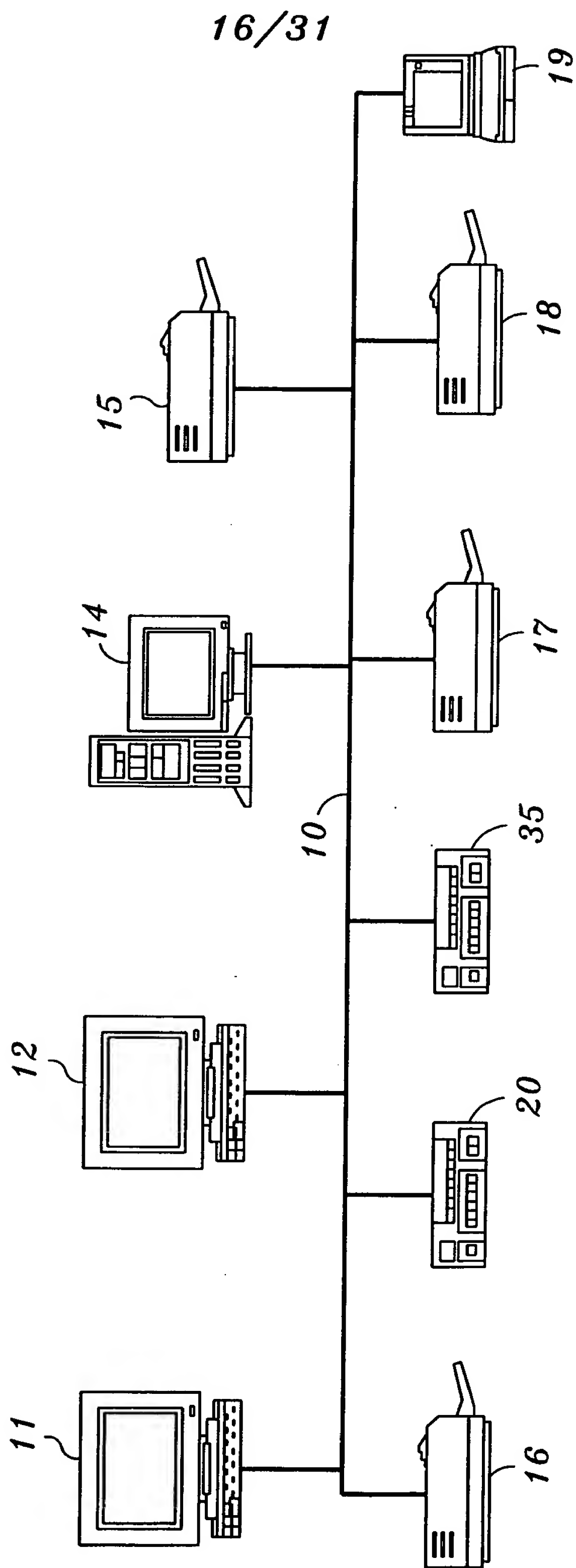


FIG. 14

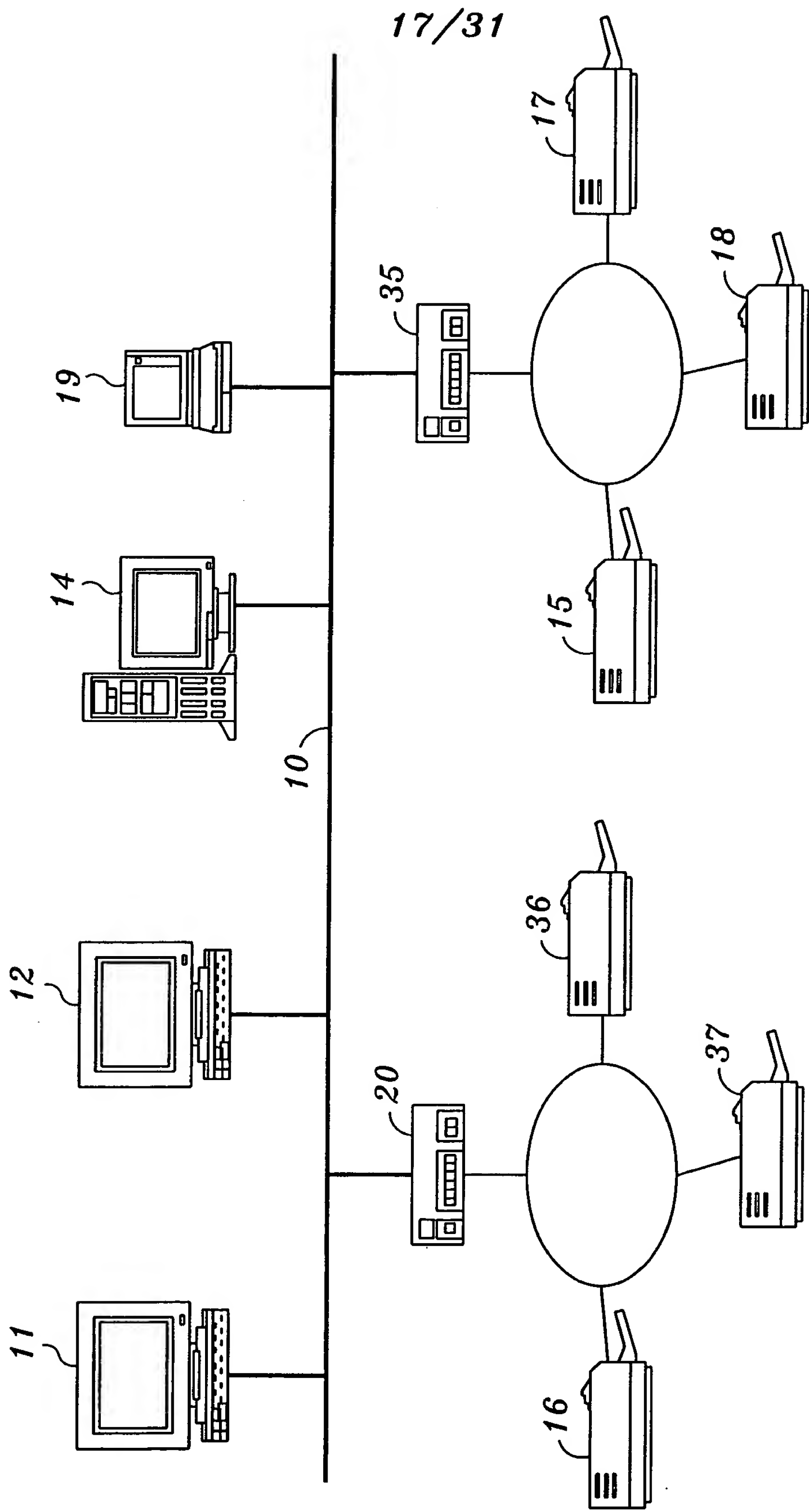


FIG. 15

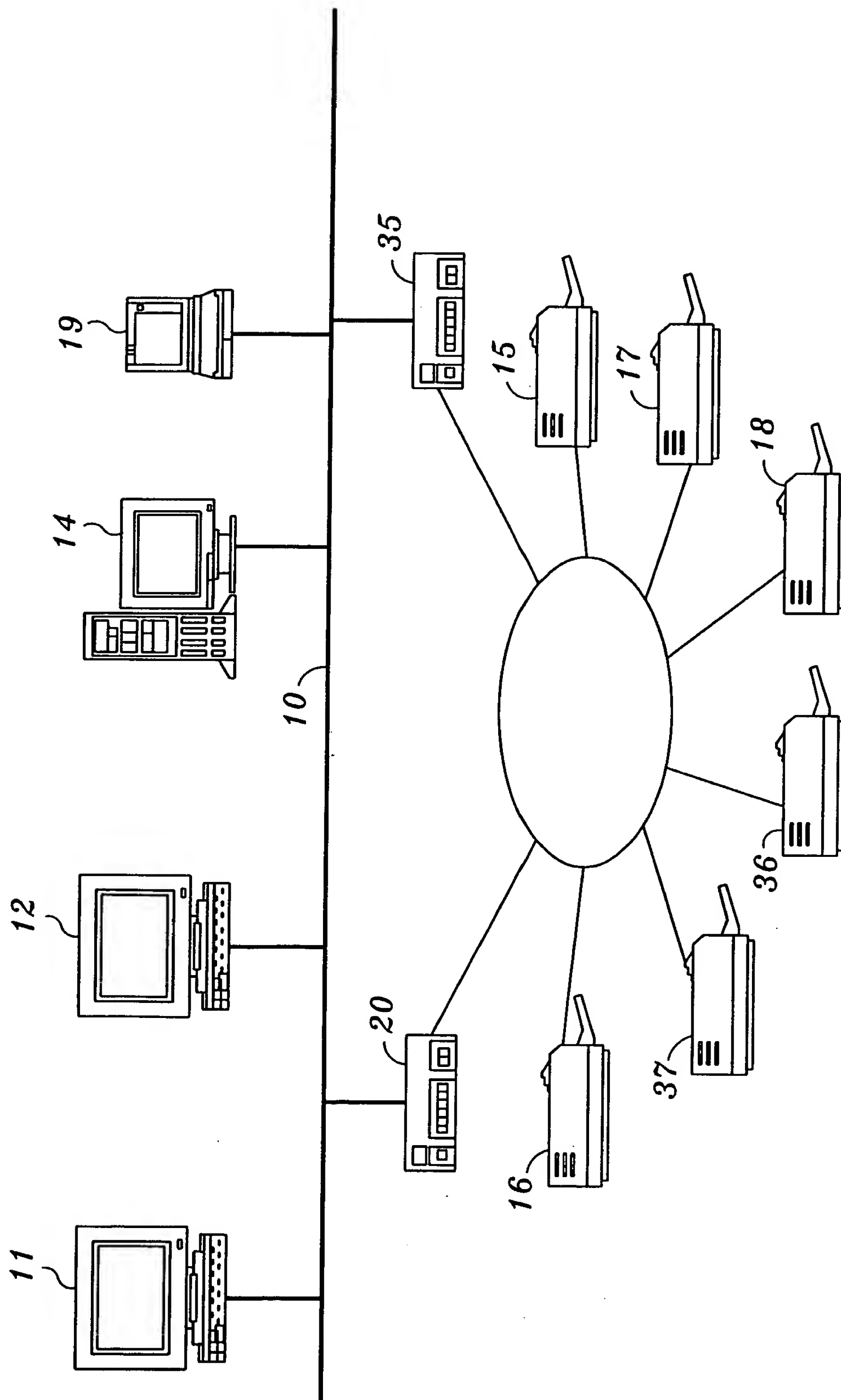


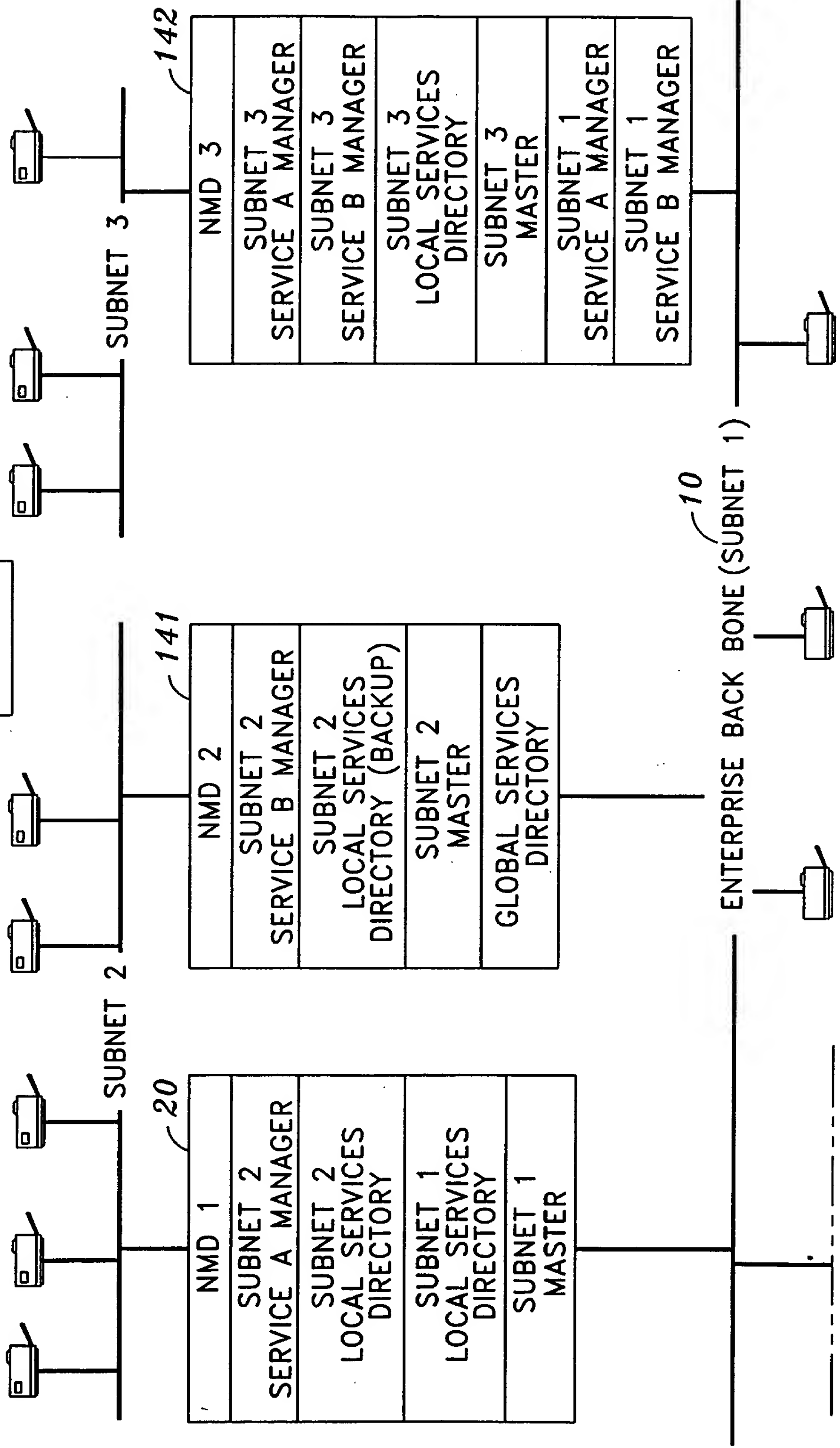
FIG. 16

FIG. 17

FIG. 17A

FIG. 17A

FIG. 17B



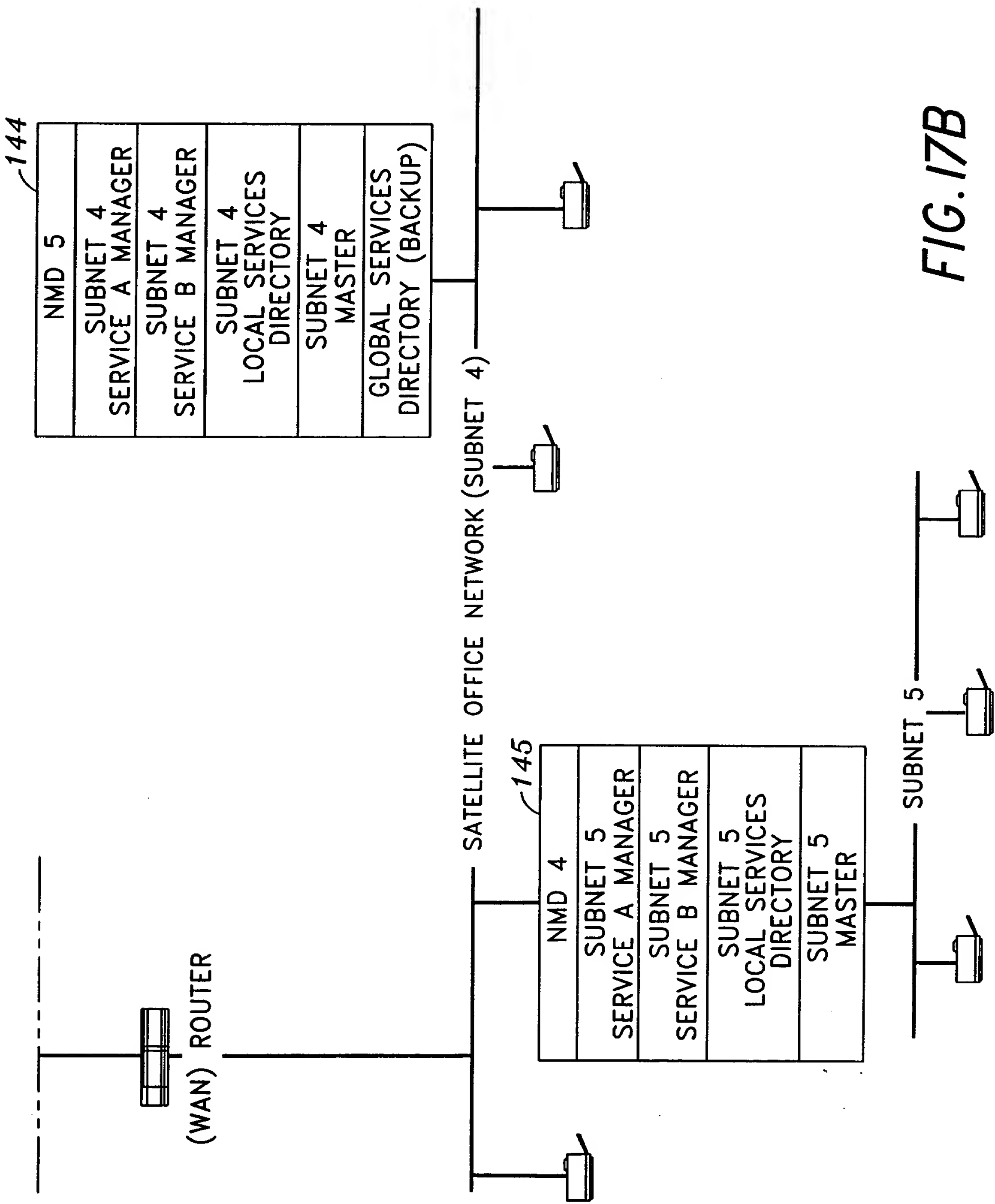


FIG. 17B

FIG. 18A

FIG. 18B

FIG. 18

FIG. 18A

		NMD 1	
SUBNET		COMPONENT	STATE
1		PRINTER QUEUE SERVICE	NOT RUNNING
1		DISCOVERY SERVICE	NOT RUNNING
1		LOCAL SERVICES DIRECTORY	RUNNING
1		MASTER	RUNNING
2		PRINTER QUEUE SERVICE	RUNNING
2		DISCOVERY SERVICE	NOT RUNNING
2		LOCAL SERVICES DIRECTORY	RUNNING
2		MASTER	NOT RUNNING
		GLOBAL SERVICES DIRECTORY	NOT RUNNING/BACKUP

		NMD 2	
SUBNET		COMPONENT	STATE
1		PRINTER QUEUE SERVICE	NOT RUNNING
1		DISCOVERY SERVICE	NOT RUNNING
1		LOCAL SERVICES DIRECTORY	NOT RUNNING/BACKUP
1		MASTER	NOT RUNNING
2		PRINTER QUEUE SERVICE	NOT RUNNING
2		DISCOVERY SERVICE	RUNNING
2		LOCAL SERVICES DIRECTORY	BACKUP
2		MASTER	RUNNING
		GLOBAL SERVICES DIRECTORY	RUNNING

FIG. 18B

		NMD 3	
SUBNET		COMPONENT	STATE
1		PRINTER QUEUE SERVICE	RUNNING
1		DISCOVERY SERVICE	RUNNING
1		LOCAL SERVICES DIRECTORY	NOT RUNNING/BACKUP
1		MASTER	NOT RUNNING
3		PRINTER QUEUE SERVICE	RUNNING
3		DISCOVERY SERVICE	RUNNING
3		LOCAL SERVICES DIRECTORY	RUNNING
3		MASTER	RUNNING
		GLOBAL SERVICES DIRECTORY	NOT RUNNING/BACKUP

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		NMD 4	
SUBNET		COMPONENT	STATE
4		PRINTER QUEUE SERVICE	RUNNING
4		DISCOVERY SERVICE	RUNNING
4		LOCAL SERVICES DIRECTORY	RUNNING
4		MASTER	RUNNING
		GLOBAL SERVICES DIRECTORY	BACKUP

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		NMD 5	
SUBNET		COMPONENT	STATE
4		PRINTER QUEUE SERVICE	NOT RUNNING
4		DISCOVERY SERVICE	NOT RUNNING
4		LOCAL SERVICES DIRECTORY	NOT RUNNING/BACKUP
4		MASTER	NOT RUNNING
5		PRINTER QUEUE SERVICE	RUNNING
5		DISCOVERY SERVICE	RUNNING
5		LOCAL SERVICES DIRECTORY	RUNNING
5		MASTER	RUNNING
		GLOBAL SERVICES DIRECTORY	NOT RUNNING/BACKUP

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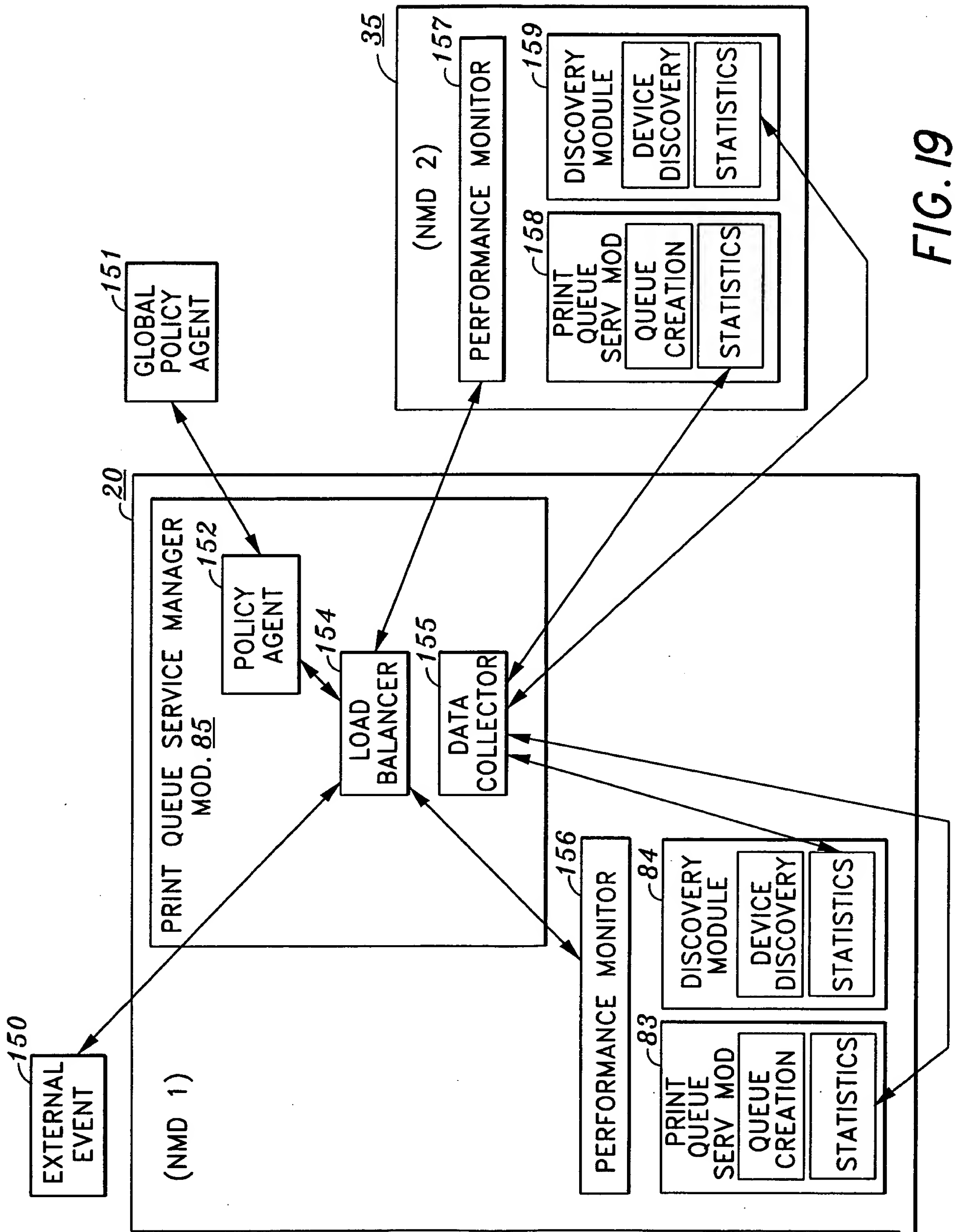


FIG. 19

FIG. 20A

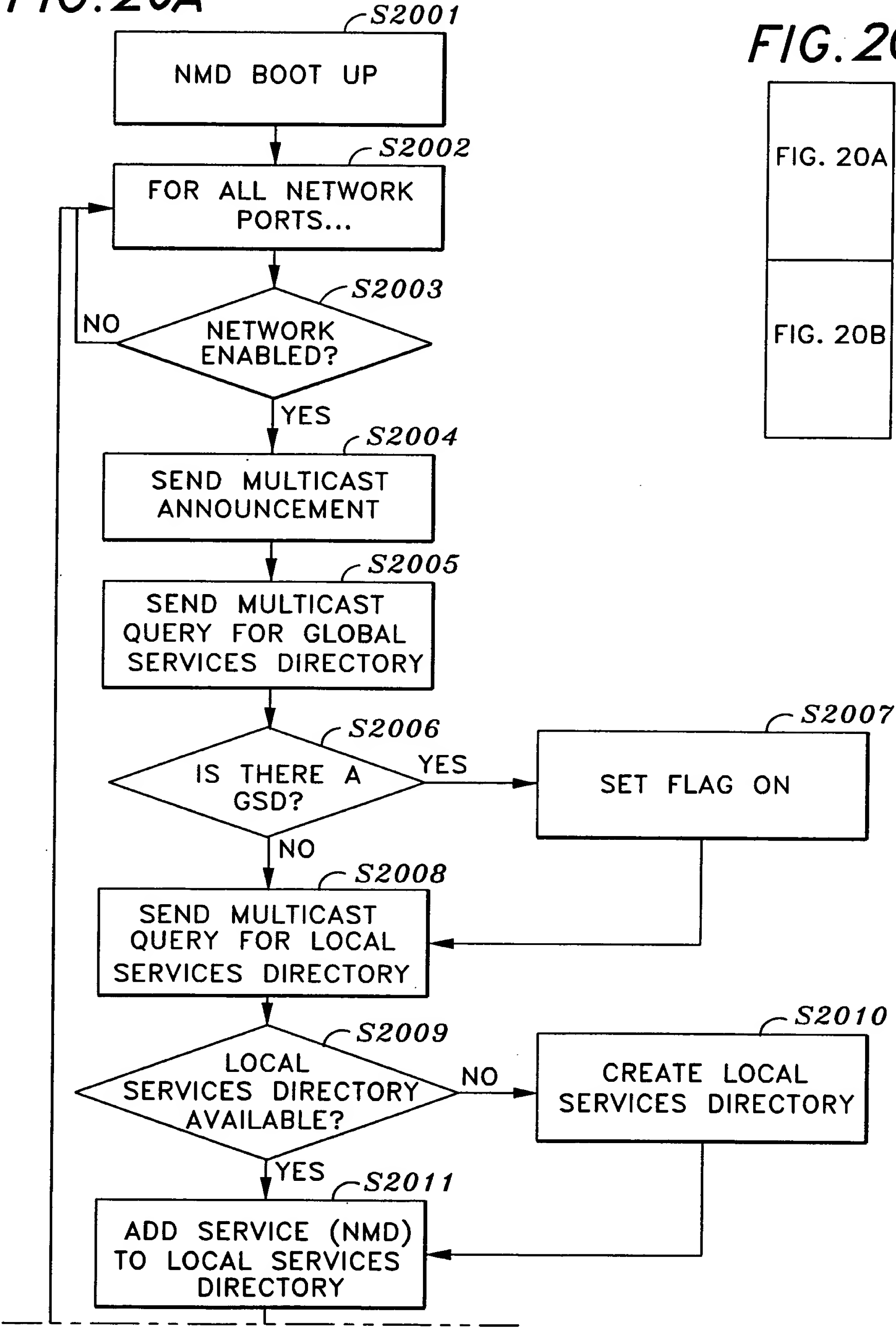


FIG. 20

FIG. 20A

FIG. 20B

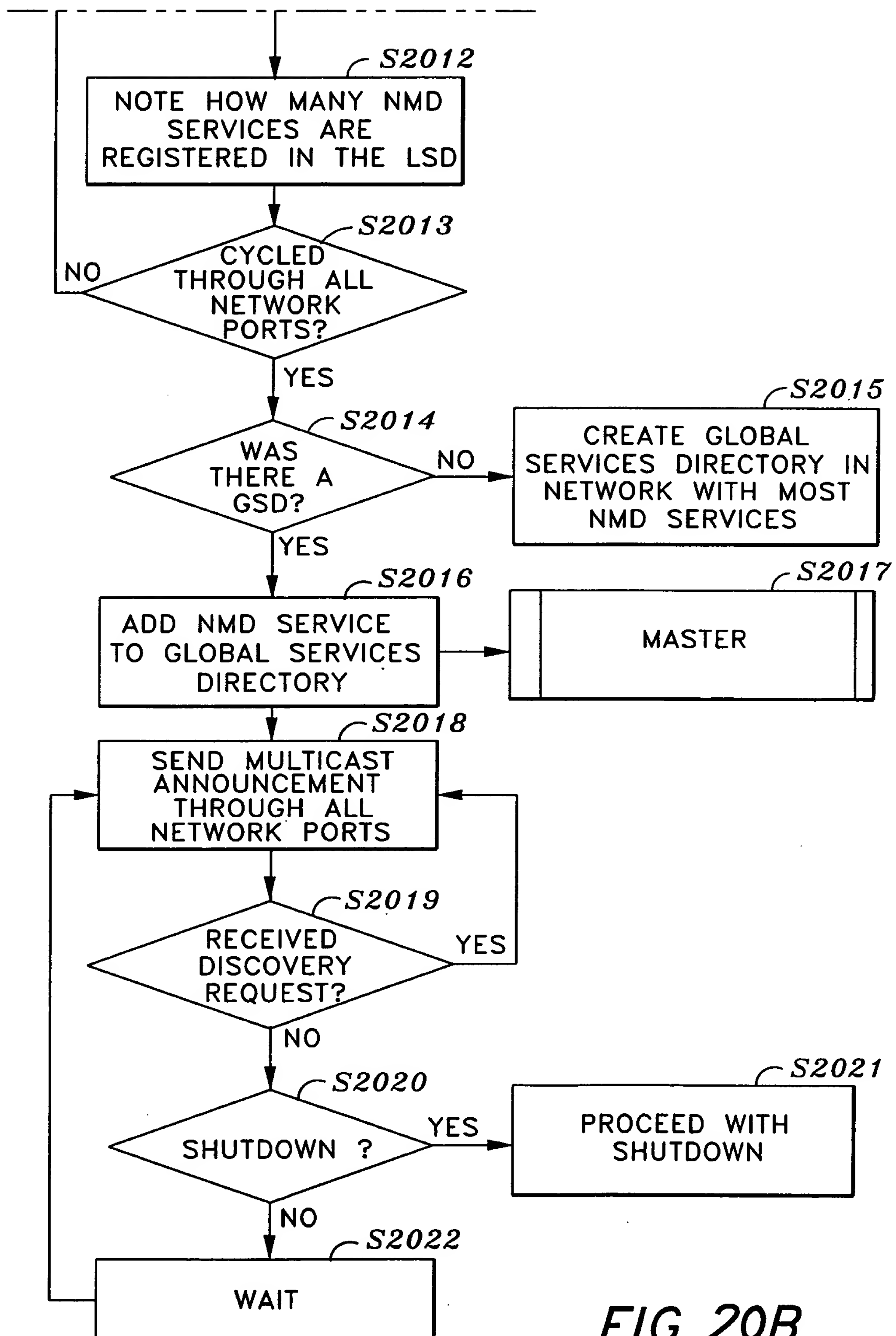


FIG. 20B

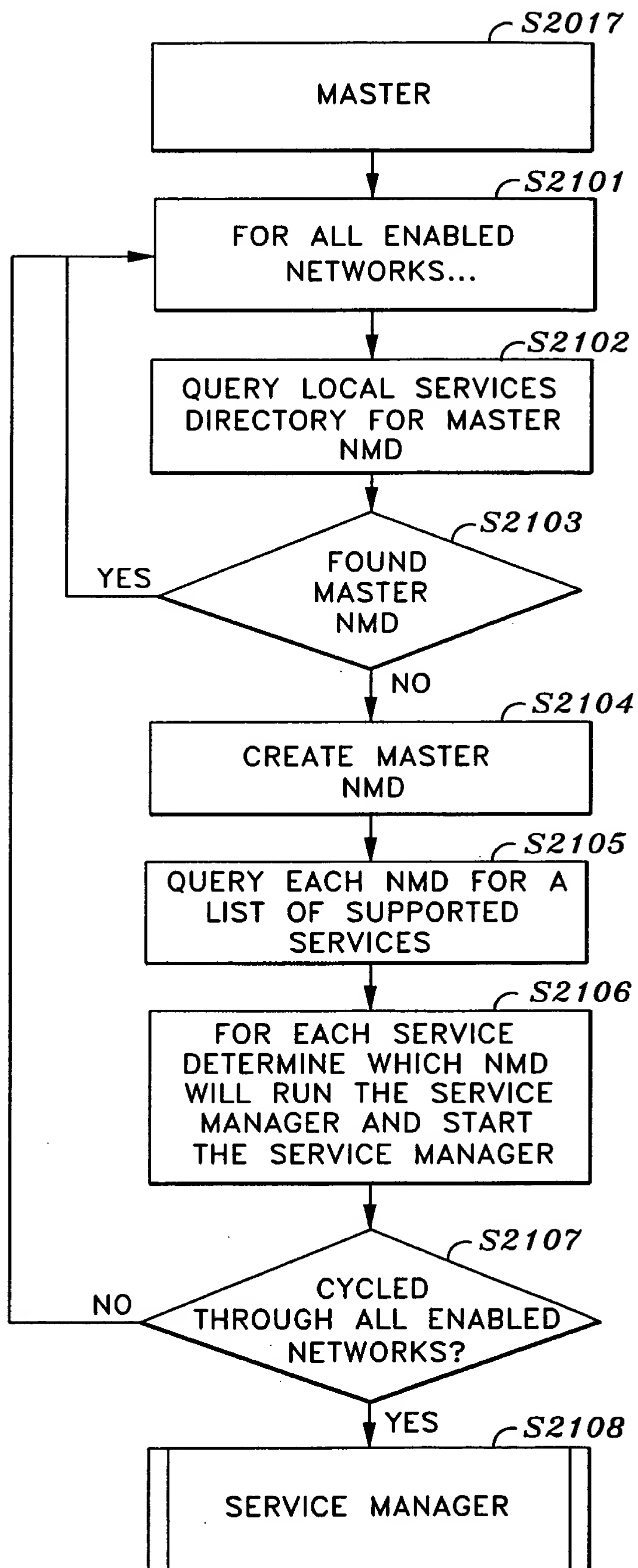


FIG. 21

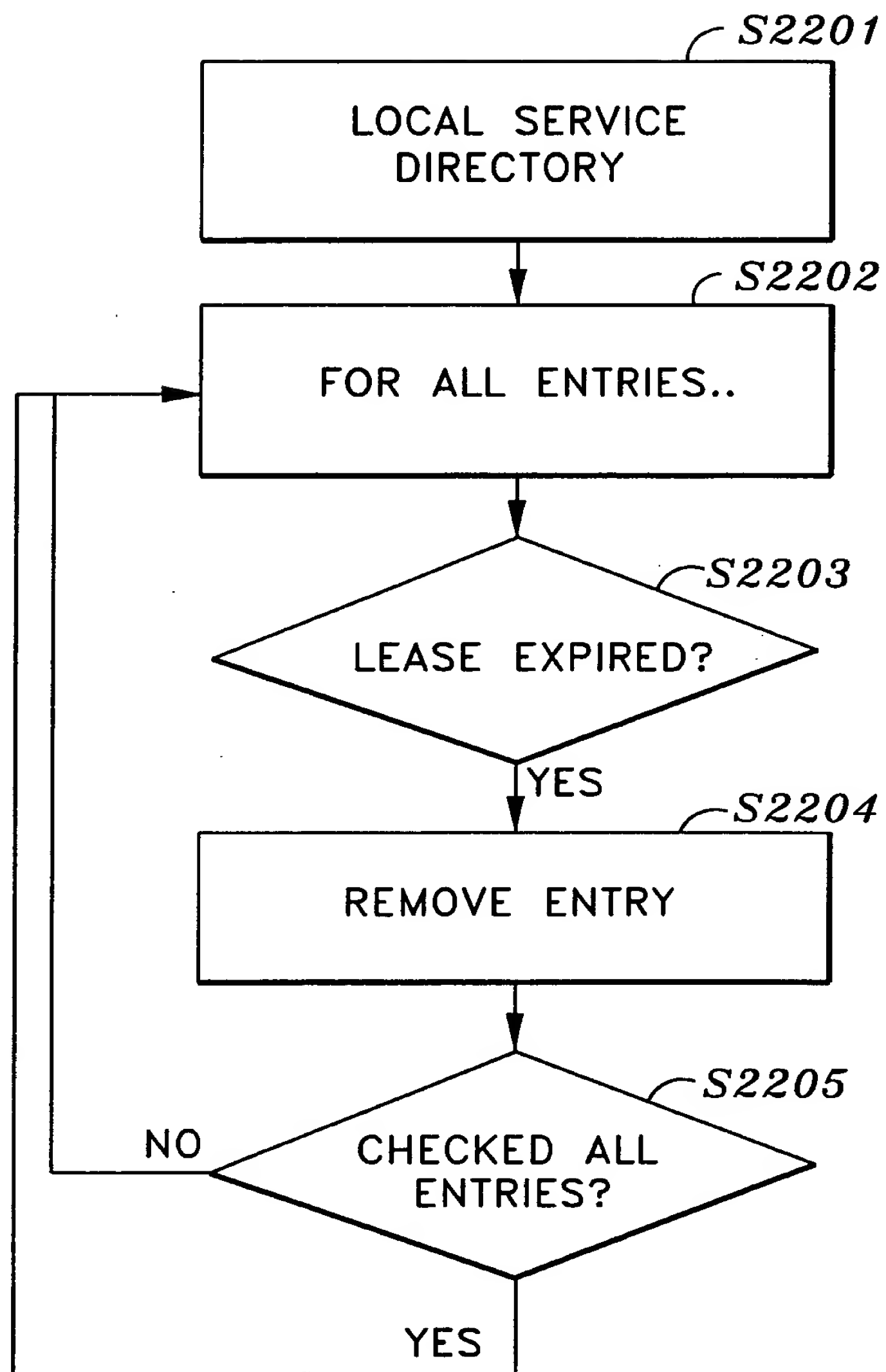


FIG. 22

FIG. 23

FIG. 23A

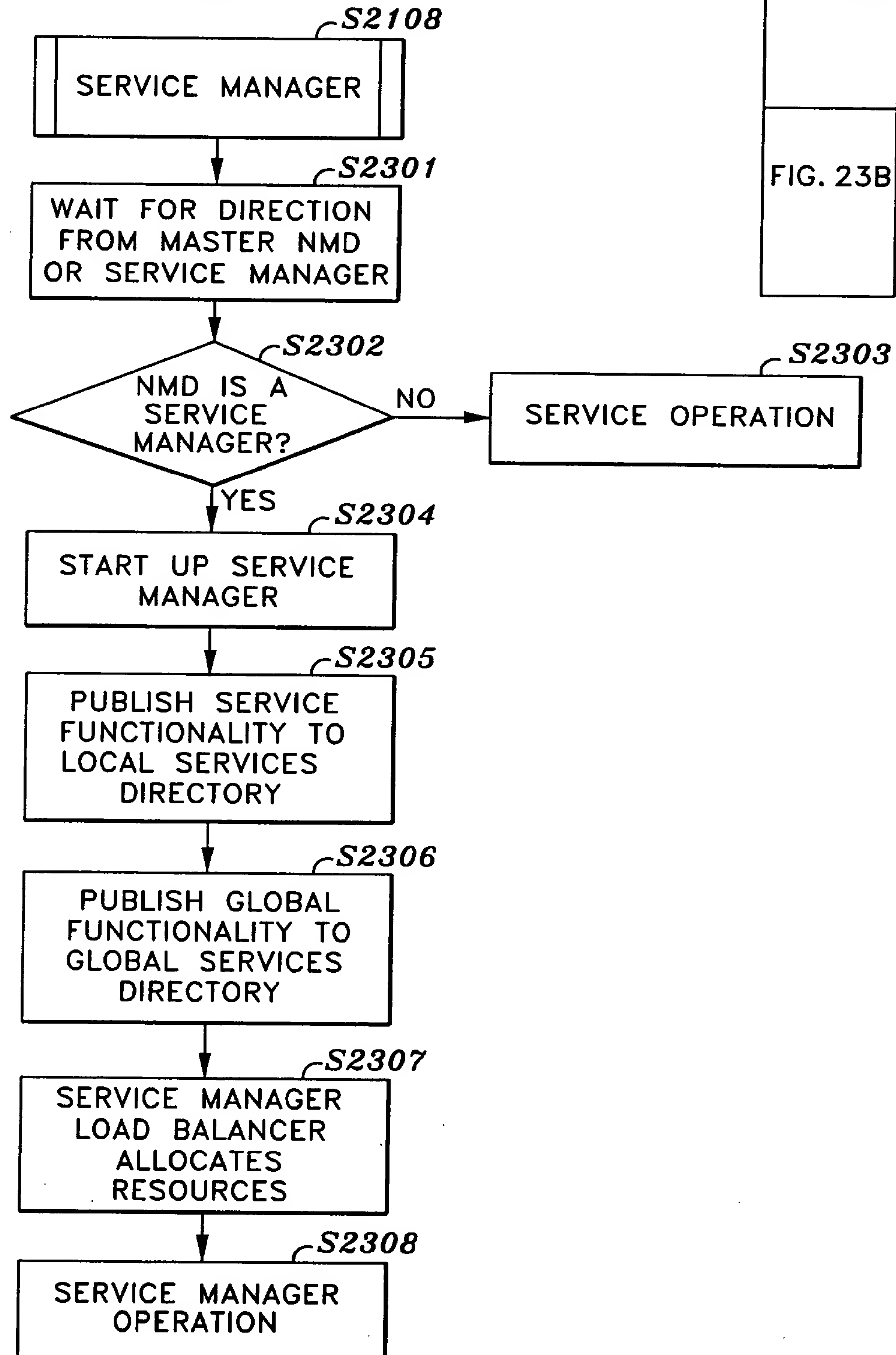


FIG. 23A

FIG. 23B

S2303

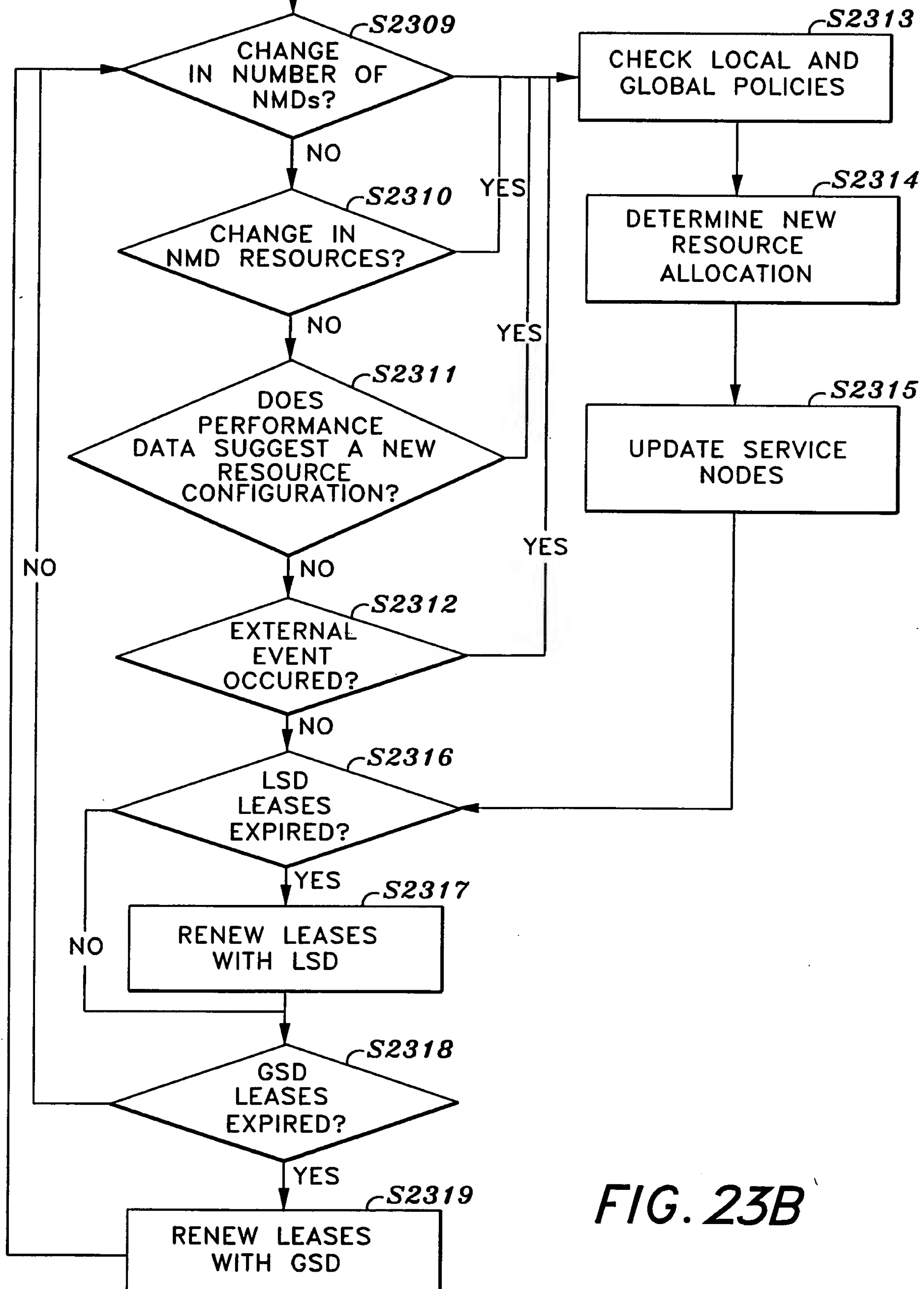
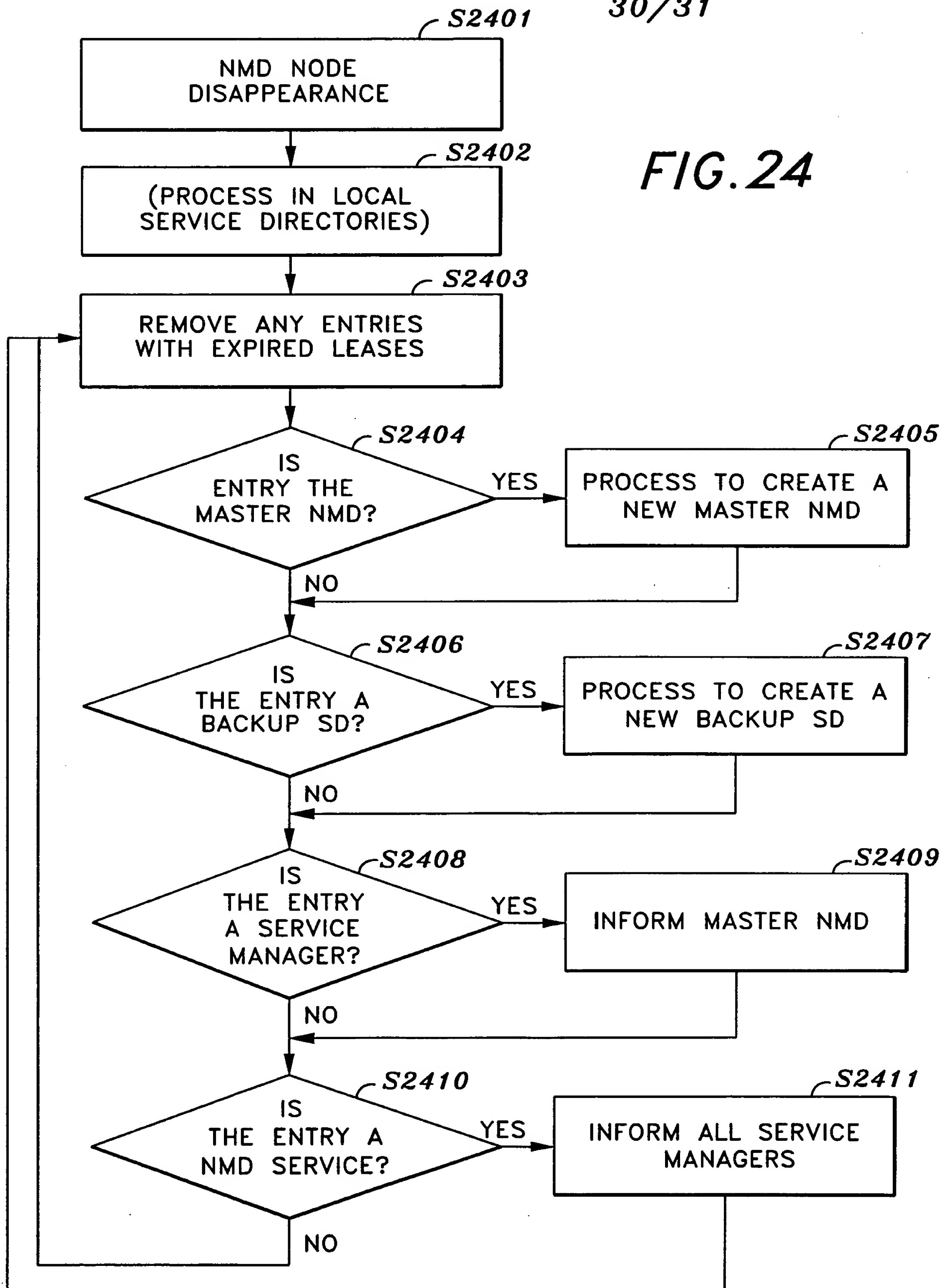


FIG. 24



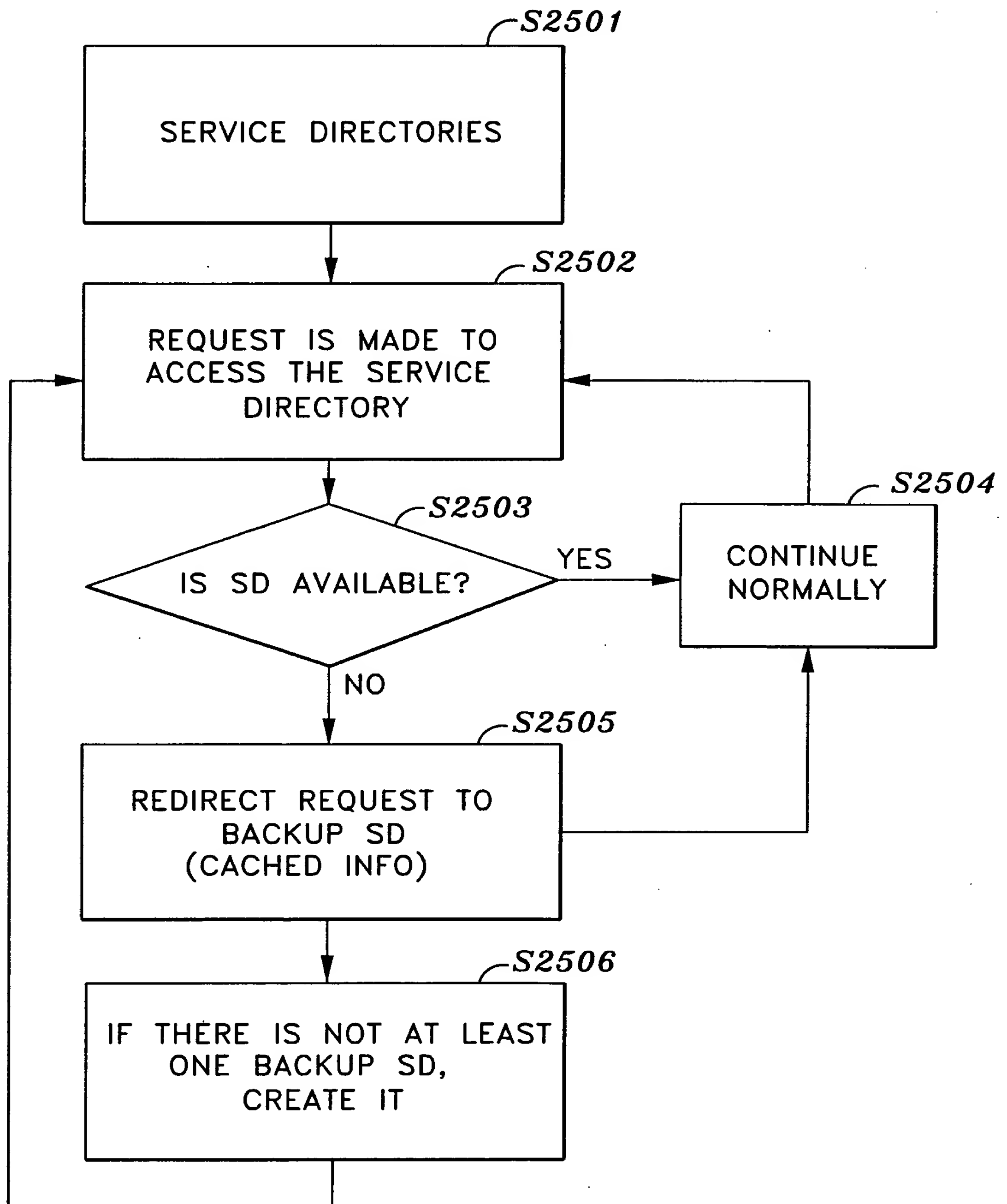


FIG. 25